



## Contents of volume 105

Volume 105, Nos. 1 and 2

September 15 1998

Age-related changes in the inner zone of the adrenal cortex of the rat—a morphologic and biochemical study H. de Almeida, M.C. Magalhães, M.M. Magalhães (Porto, Portugal)	1
Changes in integrin/adhesion molecule expression, but not in the T-cell receptor repertoire, in old mice infected with tuberculosis I.M. Orme, A.D. Roberts (Fort Collins, CO)	19
The effects of aging and calorie restriction on plasma nutrient levels in male and female Emory mice M.M. Scrofano, J. Jahngen-Hodge, T.R. Nowell, Jr., X. Gong, D.E. Smith, G. Perrone, G. Asmundsson, G. Dallal, B. Gindlesky, C.V. Mura, A. Taylor (Boston, MA)	31
Primmorphs generated from dissociated cells of the sponge <i>Suberites domuncula</i> : a model system for studies of cell proliferation and cell death M.R. Custodio, I. Prokic, R. Steffen, C. Koziol, R. Borojevic, F. Brümmer, M. Nickel, W.E.G. Müller (Mainz, D, Stuttgart, Germany; Rio de Janeiro, CEP, Brazil)	45
The life-shortening effect of reduced physical activity is abolished by a fat rich diet W. Mlekusch, M. Tillian, M. Lamprecht, K. Oettl, H. Krainz, G. Reibnegger (Graz, Austria)	61
Age dependent decline in the 3'→5' exonuclease activity involved in proofreading during DNA synthesis T. Taguchi, M. Fukuda, T. Toda, M. Ohashi (Tokyo, Japan)	75
Biological ages of adult men and women with Down's syndrome and its changes with aging E. Nakamura, S. Tanaka (Kyoto, Japan)	89
Expressional changes in alternative splicing affecting genes during cell passage of human diploid fibroblasts Y. Ito, T. Ide, Y. Mitsui (Ibaraki, Hiroshima, Japan)	105

Phosphorylation and coupling of $\zeta$ -chains to activated T-cell receptor (TCR)/CD3 complexes from peripheral blood T-cells of elderly humans R.L. Whisler, C.I. Karanfilov, Y.G. Newhouse, C.C. Fox, R.R. Lakshmanan, B. Liu (Columbus, OH) . . . . .	115
Premature induction of aging in sublethally H <sub>2</sub> O <sub>2</sub> -treated young MRC5 fibroblasts correlates with increased glutathione peroxidase levels and resistance to DNA breakage R. Caldini, M. Chevanne, A. Mocali, D. Tombaccini, F. Paoletti (Firenze, Italy) . . . . .	137
Changes in the expression of protein kinase C (PKC), phospholipases C (PLC) and D (PLD) isoforms in spleen, brain and kidney of the aged rat: RT-PCR and Western blot analysis T. Mizutani, S. Nakashima, Y. Nozawa (Gifu, Japan) . . . . .	151
Age-related changes in septal serotonergic, GABAergic and glutamatergic facilitation of retention in SAMP8 mice J.F. Flood, S.A. Farr, K. Uezu, J.E. Morley (St. Louis, MO) . . . . .	173
Early male initiation (time frame shift): a possible contributor to their shortened lifespan R.P. Spencer (Farmington, CT) . . . . .	189

**Volume 105, No. 3****November 16, 1998**

Ontogenesis of hepatocyte respiration processes in relation to rat liver cytochrome P450-dependent monooxygenase system A. Plewka, M. Kamiński, D. Plewka (Katowice-Ligota, Poland) . . . . .	197
Modification of HLA expression on peripheral lymphocytes and monocytes during ageing C. Le Morvan, M. Cogné, D. Troutaud, J.P. Charmes, P. Sauvage, M. Drouet (Limoges, France) . . . . .	209
Cell-associated pentosidine as a marker of aging in human diploid cells in vitro and in vivo D.R. Sell, M. Prime, I.A. Schafer, M. Kovach, M.A. Weiss, V.M. Monnier (Cleveland, OH) . . . . .	221
Dynamic phenotypic restructuring of the CD4 and CD8 T-cell subsets with age in healthy humans: a compartmental model analysis D.R. Jackola, H.M. Hallgren (Minneapolis, MN) . . . . .	241
Ribosomal RNA in Alzheimer's disease and ageing S.L.M. Payão, M.A.C. Smith, L.M.F. Winter, P.H.F. Bertolucci (São Paulo, Brazil) . . . . .	265
Calorie restriction, stress and the ubiquitin-dependent pathway in mouse livers M.M. Scrofano, F. Shang, T.R. Nowell, Jr., X. Gong, D.E. Smith, M. Kelliher, J. Dunning, C.V. Mura, A. Taylor (Boston, MA; Santiago, Chile) . . . . .	273

Decrease in Ca-ATPase activity in aged synaptosomal membranes is not associated with changes in fatty acyl chain dynamics Z. Qin, A. Zaidi, J. Gao, A.G. Krainev, M.L. Michaelis, T.C. Squier, D.J. Bigelow (Lawrence, KS) . . . . .	291
The fractionation experiment: reducing heterogeneity to investigate age-specific mortality in <i>Drosophila</i> A.A. Khazaeli, S.D. Pletcher, J.W. Curtsinger (St. Paul, MN). . . . .	301
Mortality from congenital anomalies J. Dolejs (Hradec Kralove, Czech Republic) . . . . .	319
Author index of volume 105	333
Subject index of volume 105	335
Contents of volume 105	339

